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The Astro-particle Physics Commission 2

This document contains some initial input from INFN Commission 2 on Astro-particle Physics (CSN2) for the update of the European Strategy for Particle Physics. It is not intended to provide a comprehensive overview of CSN2 activities or to cover all possible relevant aspects of the Strategy: this will be defined with other stakeholders during the update process in February 2024. The goal is to emphasize CSN2 activities that are or could be related soon to particle physics programs and CERN activities, one way or the other. CERN is already giving important contributions to the neutrino (neutrino platform), gravitational waves (ET) and cosmic ray physics (beam tests and ground segments of space missions). On the other hand, CERN could also benefit from opening to astro-particle physics issues by enlarging its scope and taking advantage of the synergies between astro-particle and particle physics searches. We conclude with a short section devoted to some proposals for active CERN involvement in astroparticle physics programs.

Author: CREMONESI, Oliviero